

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.

# WEST Search History

09/17/2005

DATE: Saturday, August 23, 2003

**Set Name** **Query**  
side by side

**Hit Count** **Set Name**  
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L1 canine\$ near5(il\$1 or interleukin\$1)near2 "12"

12 L1

DB=USPT; PLUR=YES; OP=OR

L2 L1

2 L2

DB=PGPB; PLUR=YES; OP=OR

L3 L1

3 L3

DB=JPAB; PLUR=YES; OP=OR

L4 L1

2 L4

DB=EPAB; PLUR=YES; OP=OR

L5 L1

1 L5

DB=DWPI; PLUR=YES; OP=OR

L6 L1

4 L6

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L7 subunit\$1 and link\$

28534 L7

L8 11 and 17

5 L8

DB=USPT; PLUR=YES; OP=OR

L9 L8

2 L9

DB=PGPB; PLUR=YES; OP=OR

L10 L8

2 L10

DB=JPAB; PLUR=YES; OP=OR

L11 L8

0 L11

DB=EPAB; PLUR=YES; OP=OR

L12 L8

0 L12

DB=DWPI; PLUR=YES; OP=OR

L13 L8

1 L13

END OF SEARCH HISTORY

Displayed KWIC  
w/o PRDisplayed  
AB, FRU  
w/o PR.

\*\*\*\*\* Welcome to STN International \*\*\*\*\*  
\*\*\*\*\*

NEWS 1 Web Page URLs for STN Seminar Schedule - N.  
America NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 Feb 24 PCTGEN now available on STN NEWS 4 Feb  
24 TEMA now available on STN NEWS 5 Feb 26 NTIS now  
allows simultaneous left and right truncation NEWS 6 Feb 26  
PCTFULL now contains images NEWS 7 Mar 04 SDI PACKAGE  
for monthly delivery of multifile SDI results NEWS 8 Mar 24  
PATDPAFULL now available on STN NEWS 9 Mar 24 Additional  
information for trade-named substances without structures  
available in REGISTRY NEWS 10 Apr 11 Display formats in  
DGENE enhanced NEWS 11 Apr 14 MEDLINE Reload NEWS 12  
Apr 17 Polymer searching in REGISTRY enhanced NEWS 13  
AUG 22 Indexing from 1927 to 1936 added to records in  
CA/CAPLUS NEWS 14 Apr 21 New current-awareness alert  
(SDI) frequency in WPIDS/WPINDEX/WPIX NEWS 15 Apr 28  
RDISCLOSURE now available on STN NEWS 16 May 05  
Pharmacokinetic information and systematic chemical names  
added to PHAR NEWS 17 May 15 MEDLINE file segment of  
TOXCENTER reloaded NEWS 18 May 15 Supporter information  
for ENCOMPPAT and ENCOMPLIT updated NEWS 19 May 19  
Simultaneous left and right truncation added to WSCA NEWS  
20 May 19 RAPRA enhanced with new search field,  
simultaneous left and right truncation NEWS 21 Jun 06  
Simultaneous left and right truncation added to CBNB NEWS  
22 Jun 06 PASCAL enhanced with additional data NEWS 23  
Jun 20 2003 edition of the FSTA Thesaurus is now available  
NEWS 24 Jun 25 HSDB has been reloaded NEWS 25 Jul 16  
Data from 1960-1976 added to RDISCLOSURE NEWS 26 Jul  
21 Identification of STN records implemented NEWS 27 Jul 21  
Polymer class term count added to REGISTRY NEWS 28 Jul 22  
INPADOC: Basic index (/BI) enhanced; Simultaneous Left and  
Right Truncation available NEWS 29 AUG 05 New pricing for  
EUROPATFULL and PCTFULL effective August 1, 2003 NEWS  
30 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 31 AUG 15 PATDPAFULL: one FREE connect hour, per  
account, in September 2003 NEWS 32 AUG 15 PCTGEN: one  
FREE connect hour, per account, in September 2003 NEWS 33  
AUG 15 RDISCLOSURE: one FREE connect hour, per account,  
in September 2003 NEWS 34 AUG 15 TEMA: one FREE  
connect hour, per account, in September 2003 NEWS 35 AUG  
18 Data available for download as a PDF in RDISCLOSURE  
NEWS 36 AUG 18 Simultaneous left and right truncation added  
to PASCAL NEWS 37 AUG 18 FROSTI and KOSMET enhanced  
with Simultaneous Left and Right Truncation NEWS 38 AUG 18  
Simultaneous left and right truncation added to ANABSTR  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS  
V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND  
V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01  
APRIL 2003 NEWS HOURS STN Operating Hours Plus Help  
Desk Availability NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items NEWS PHONE  
Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see  
news on that  
specific topic.

All use of STN is subject to the provisions of the STN  
Customer agreement. Please note that this agreement limits  
use to scientific research. Use for software development or  
design or implementation of commercial gateways or other

similar uses is prohibited and may result in loss of user  
privileges and other penalties.

\*\*\*\*\* STN Columbus \*\*\*\*\*  
\*\*\*\*\*

FILE 'HOME' ENTERED AT 09:20:11 ON 23 AUG 2003

=> e caplus

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE  
The EXPAND command is used to look at the index in a file  
which has an index. This file does not have an index.

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21

FILE 'CAPLUS' ENTERED AT 09:20:24 ON 23 AUG 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER  
AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database  
refer is  
held by the publishers listed in the PUBLISHER (PB) field  
(available  
for records published or updated in Chemical Abstracts after  
December  
26, 1996), unless otherwise indicated in the original  
publications.  
The CA Lexicon is the copyrighted intellectual property of the  
American Chemical Society and is provided to assist you in  
searching  
databases on STN. Any dissemination, distribution, copying, or  
storing  
of this information, without the prior written consent of CAS,  
is  
strictly prohibited.

FILE COVERS 1907 - 23 Aug 2003 VOL 139 ISS 9  
FILE LAST UPDATED: 22 Aug 2003 (20030822/ED)  
This file contains CAS Registry Numbers for easy and  
accurate substance identification.

=> s (canine?(5a)(il# or interleukin#)(2a)12)/bi,ab 25386  
CANINE?/BI 20264 CANINE?/AB 115738 IL#/BI 110673  
IL#/AB 111493 INTERLEUKIN#/BI 74758 INTERLEUKIN#/AB  
1217801 12/BI 1134054 12/AB

L1 14 (CANINE?(5A)(IL# OR INTERLEUKIN#)(2A)12)/BI,AB

=> d l1 1-14 bib ab

L1 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:361912 CAPLUS  
TI Enhancement of reactive oxygen species production from  
\*\*\*canine\*\*\* blood leukocytes by human recombinant  
\*\*\*interleukin\*\*\* - \*\*\*12\*\*\*  
AU Yano, Kumiko; Ide, Kaori; Momoi, Yasuyuki; Yamazoe,  
Kazuaki; Kudo, Tadaaki  
CS Faculty of Agriculture, Department of Veterinary Surgery,  
Gifu University, 1-1 Yanagido, GifuGifu, 501-1193, Japan  
SO Veterinary Immunology and Immunopathology (2003),  
93(1-2), 1-8 CODEN: VIIMDS; ISSN: 0165-2427  
PB Elsevier Science B.V.

DT Journal  
LA English

AB A novel biol. activity of human recombinant \*\*\*interleukin\*\*\* - \*\*\*12\*\*\* (rhIL- \*\*\*12\*\*\* ) on \*\*\*canine\*\*\* peripheral blood mononuclear cells (PBMC) was investigated in vitro. Canine PBMC were cultured in the presence or absence of rhIL-12 for 3 days. The reactive oxygen species (ROS) prodn. induced by opsonized-zymosan (OZ) was then measured by a luminol-dependent chemiluminescence assay and demonstrated that the ROS prodn. was enhanced after culture with rhIL-12. A nitro blue tetrazolium test and flowcytometry anal. revealed that canine lymphocytes, eosinophils, and monocytes were capable of ROS prodn., but that monocytes had the highest capacity. These results suggest that rhIL-12 enhances ROS prodn. from canine monocytes.

L1 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:728894 CAPLUS  
DN 137:261894

TI Preparation of highly purified recombinant interleukin 12  
IN Ido, Takayoshi; Okano, Fumiyoshi; Sato, Masahiro  
PA Toray Industries, Inc., Japan  
SO Jpn. Kokai Tokyo Koho, 6 pp. CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2002275198 A2 20020925 JP 2001-75131 20010316  
PRAI JP 2001-75131 20010316  
AB Provided is a highly purified recombinant \*\*\*canine\*\*\*  
\*\*\*interleukin\*\*\* - \*\*\*12\*\*\*. The recombinant \*\*\*canine\*\*\*  
\*\*\*IL\*\*\* - \*\*\*12\*\*\* is purified by contacting the IL-12-  
contg. soln. with adsorbent comprising phenyl-Sepharose  
carriers and solubilizing with ammonium chloride. The purified  
recombinant \*\*\*canine\*\*\* - \*\*\*interleukin\*\*\* - \*\*\*12\*\*\* is  
useful in drug development.

L1 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:728893 CAPLUS  
DN 137:261893  
TI Stabilization of interleukin 12 with non-ionic surfactant  
IN Okano, Fumiyoshi  
PA Toray Industries, Inc., Japan  
SO Jpn. Kokai Tokyo Koho, 20 pp. CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2002275197 A2 20020925 JP 2001-80501 20010321  
PRAI JP 2001-80501 20010321  
AB Interleukin 12 is stabilized by surfactant, esp. non-ionic  
surfactant e.g. polyoxyethylene-solidified castor oil. The  
stabilized interleukin 12 is a recombinant \*\*\*interleukin\*\*\*  
\*\*\*12\*\*\*, e.g. \*\*\*canine\*\*\* - \*\*\*interleukin\*\*\* - \*\*\*12\*\*\*  
subunit P40 and subunit P35. The stabilized recombinant  
interleukin 12 is useful for treating viral infection and cancer in  
dogs and cats.

L1 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:332628 CAPLUS  
DN 136:351439  
TI \*\*\*Canine\*\*\* and feline \*\*\*interleukin\*\*\* 18,  
\*\*\*interleukin\*\*\* - \*\*\*12\*\*\*, and caspase-1 and their  
encoding cDNA sequences  
IN Wonderling, Ramani S.; Boroughs, Karen L.  
PA USA

SO U.S. Pat. Appl. Publ., 106 pp. CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 2002052030 A1 20020502 US 2001-917265 20010727  
PRAI US 2000-223016P P 20000804  
AB The present invention relates to canine and feline proteins.  
In particular, the present invention discloses feline interleukin-  
18, feline caspase-1, feline \*\*\*interleukin\*\*\* - \*\*\*12\*\*\*  
single chain, and \*\*\*canine\*\*\* - \*\*\*interleukin\*\*\* - \*\*\*12\*\*\*  
single chain proteins. The present invention also includes  
cDNA mols. encoding feline interleukin-18, feline caspase-1,  
feline \*\*\*interleukin\*\*\* - \*\*\*12\*\*\* single chain, and  
\*\*\*canine\*\*\* - \*\*\*interleukin\*\*\* - \*\*\*12\*\*\* single chain,  
antibodies raised against such proteins, and/or inhibitors of  
such proteins or nucleic acid mols. The present invention also  
includes therapeutic compns. comprising such nucleic acid  
mols., proteins, antibodies and/or inhibitors, as well as their  
use to evaluate and regulate an immune response in an  
animal.

L1 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:885414 CAPLUS  
DN 135:59920  
TI Canine interleukin-18 induces apoptosis and enhances Fas  
ligand mRNA expression in a canine carcinoma cell line  
AU Okano, Fumiyoshi; Yamada, Katsushige  
CS Chemicals Research Laboratories, Toray Industries, Inc.,  
Nagoya, 455-8502, Japan  
SO Anticancer Research (2000), 20(5B), 3411-3415 CODEN:  
ANTRD4; ISSN: 0250-7005  
PB International Institute of Anticancer Research

DT Journal  
LA English  
AB Recombinant canine interleukin-18 (IL-18) induced  
apoptosis in vitro in a canine cancer cell line derived from  
canine mammary gland tumor tissue as detd. by  
electrophoretical DNA sepn. and flow cytometry after  
propidium iodine staining. To investigate Fas ligand (FasL)  
expression on the cell line, we cloned the partial sequence of  
canine Fas Ligand (FasL) cDNA from canine lymphocytes. We  
found, by RT-PCR analyses, that the cell line expressed FasL  
mRNA and it was augmented by treatment with canine IL-18  
and further enhanced by addn. of \*\*\*canine\*\*\* - \*\*\*IL\*\*\* -  
\*\*\*12\*\*\*. Treatment with recombinant canine IL-18  
resulted in complete regression of the cell line transplanted  
into scid mice. This anti-tumor activity was not blocked by  
anti-mouse IFN- $\gamma$ . and anti-asialo GM1 antibody,  
suggesting that the tumor regression was not dependent on  
IFN- $\gamma$ . or NK cells of the host. Because there is no  
cross-reactivity of canine IL-18 with mouse host cells, these  
results suggested that canine IL-18 may be able to directly kill  
the breast cancer cells by inducing apoptosis. Canine IL-18  
should prove useful as an anti-cancer agent.  
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE  
FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L1 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1999:444714 CAPLUS  
DN 131:198366

TI GD3 ganglioside antibody augments tumoricidal capacity of  
canine blood mononuclear cells by induction of interleukin 12  
AU Helfand, Stuart C.; Dickerson, Erin B.; Munson, Keith L.;  
Padilla, Marcia L.

CS School of Veterinary Medicine, Department of Medical Sciences, University of Wisconsin-Madison, Madison, WI, 53706, USA

SO Cancer Research (1999), 59(13), 3119-3127 CODEN: CNREA8; ISSN: 0008-5472

PB AACR Subscription Office

DT Journal

LA English

AB Monoclonal antibody R24 recognizes ganglioside GD3 expressed on the cell surfaces of some tumor cells and on a subset of human T lymphocytes. Binding of R24 to these lymphocytes induces proliferation, cytokine prodn., and activation of intracellular signaling pathways. Here, the authors investigated expression of gangliosides by canine mononuclear immune cells and studied the ability of anti-ganglioside antibody to activate these cells using tumor cell killing as a measure of activation. A subset of canine monocytes, but not lymphocytes, was found to express gangliosides GD3 and GD2 as detd. by the binding of monoclonal antibodies R24 and 14.G2a, resp. Only R24 augmented the tumoricidal potential of fresh canine peripheral blood mononuclear cells (PBMCs) against tumor cell lines that did not express surface gangliosides GD3 or GD2. The augmenting effect of R24 on PBMC-mediated tumor cytotoxicity required cooperation between monocytes and lymphocytes because there was no enhancement of cytotoxicity mediated by R24 combined with either monocytes or lymphocytes individually. The enhancing effect of R24 on canine PBMC-mediated tumor cytotoxicity was blocked by anti-interleukin (IL)-12 neutralizing antibody, suggesting that R24 binding to monocytes triggered IL-12 release, contributing to the obsd. tumor killing effects. Reverse transcription-PCR confirmed that the binding of R24 to canine monocytes induced transcription of mRNA for \*\*\*canine\*\*\* \*\*IL\*\*\* - \*\*\*12\*\*\*. Thus, monocytes can be activated for tumoricidal responses through a membrane structure assocd. with ganglioside GD3 triggered by the binding of R24 and the mechanism for enhanced cytotoxicity is due to the prodn. and secretion of IL-12.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1999:419759 CAPLUS

DN 131:68764

TI RT-PCR amplification of various canine cytokines and so-called house-keeping genes in a species-specific macrophage cell line (DH82) and canine peripheral blood leukocytes AU Grone, A.; Fonfara, S.; Markus, S.; Baumgartner, W. CS Inst. Veterinar-Pathologie, Justus-Liebig-Univ., Giessen, D-35392, Germany

SO Journal of Veterinary Medicine, Series B (1999), 46(5), 301-310 CODEN: JVBME9; ISSN: 0931-1793

PB Blackwell Wissenschafts-Verlag GmbH

DT Journal

LA English

AB Total RNA isolated From a continuous canine macrophage cell line (DH82) was used in reverse transcription PCRs (RT-PCR) for the detection of transcripts of interleukin (IL)-8, -12, and tumor necrosis factor- $\alpha$ . (TNF). 3 Different methods of RNA isolation (std. guanidinium-thiocyanate method with and without application of RNA matrix, and boiling) were used and compared in regard to RT-PCR results. The most suitable method was used to establish RT-PCR amplification of mRNA transcripts of IL-2, IL-10, and interferon- $\gamma$ . (IFN) in RNA isolated from canine peripheral blood leukocytes.

Integrity of RNA isolates was ensured by amplification of glyceraldehyde-3-phosphate dehydrogenase (GAPDH) or  $\beta$ -actin. IL-8, IL-12, and TNF were amplified from RNA isolated by various methods. Use of guanidinium-thiocyanate with and without RNA matrix gave the most consistent results. Boiling as a mean of RNA isolation was quick and easy, but the RT-PCR results were extremely variable and multiple smaller bands were obsd. in the agarose gel in some preps. IL-2, IL-10, and IFN transcripts were amplified from RNA isolated with guanidinium-thiocyanate from leukocytes stimulated with Con A. DNase-treatment of RNA isolates was necessary to assure the destruction of genomic DNA and to avoid amplification of genomic sequences. This was esp. a problem when using primers For GAPDH,  $\beta$ -actin, IL-12, and TNF. Lack of DNase-treatment may lead to false pos. results. This may be esp. a problem when amplification of so-called house-keeping genes is used as internal control for RNA integrity. These findings demonstrated that isolation of total RNA with guanidinium-thiocyanate followed by DNase-treatment gave reliable and consistent results For detection of cytokine transcripts by RT-PCR in a canine macrophage cell line and canine peripheral blood leukocytes.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1999:253734 CAPLUS

DN 130:336970

TI Recombinant dog interleukin 12 for treating and preventing immune disease in dog and cat

IN Okano, Fumiyoshi; Sato, Masahiro; Yamada, Katsunari

PA Toray Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2 PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 11106350 A2 19990420 JP 1998-133345 19980515 US 6562334 B1 20030513 US 1999-390729 19990907

PRAI JP 1997-127690 A 19970516 JP 1997-213755 A

19970807 US 1998-79984 A3 19980515

AB Recombinant dog interleukin 12 (a 40 kDa and a 35 kDa proteins) or dimers having natural killer cell-activating and type 1 helper T cell-activating activities were prepd. by mol. cloning. Therapeutics contg. the recombinant IL-12 are useful for preventing and treating immune disease, tumor, dermatitis, infection, or allergic disease in dogs and cats. Mol. cloning of CaIL12P40 and CaIL12P35 contg. dog interleukin 12 cDNA was described. CaIL12-expressing vectors FOCaIL12P40 and FOCaIL12P35 were prepd. and CaIL12 was produced. Also, baculovirus contg. the CaIL12 was generated and expressed in Sf21 cells to obtain CaIL12. The effectiveness of the recombinant IL-12 as therapeutic was evaluated.

L1 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1999:112589 CAPLUS

DN 130:310438

TI Cloning of cDNA for canine interleukin-18 and canine interleukin-1 $\beta$ . converting enzyme and expression of canine interleukin-18

AU Okano, Fumiyoshi; Satoh, Masahiro; Ido, Takayoshi; Yamada, Katsushige

CS Chemicals Research Laboratories, Toray Industries, Inc., Nagoya, Japan

SO Journal of Interferon and Cytokine Research (1999), 19(1), 27-32 CODEN: JICRFJ; ISSN: 1079-9907

PB Mary Ann Liebert, Inc.

DT Journal

LA English

AB Cloning of canine interleukin-18 (IL-18) and canine interleukin-1. beta. converting enzyme (ICE) cDNA was carried out by using murine IL-18 cDNA and human ICE cDNA, resp., as probes. Sequence homol. to known sequences of human, mouse, or rat genes was noted at nucleotide and amino acid levels. Canine IL-18 mRNA was expressed in various canine organs, whereas canine ICE mRNA was expressed in only a few, particularly in the brain and testis. Cloned canine IL-18 cDNA was expressed in Escherichia coli. The resulting protein promoted induction of canine interferon-.gamma. (IFN-.gamma.) from stimulated canine lymphocytes. \*\*\*Canine\*\*\* \*\*IL\*\*\* -18 and \*\*\*canine\*\*\* \*\*IL\*\*\* - \*\*\*12\*\*\* produced \*\*\*canine\*\*\* IFN-.gamma. synergistically. Canine IL-18 suppressed the growth of tumor cells transplanted in SCID mice. Cloned canine IL-18 should prove useful as an anticancer agent.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1998:764300 CAPLUS  
DN 130:24120

TI Therapeutic agent, treatment method, prophylactic agent, and prophylactic method for canine and feline immunological diseases

IN Okano, Fumiyoshi; Satoh, Masahiro; Yamada, Katsushige  
PA Toray Industries, Inc., Japan

SO PCT Int. Appl., 45 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 2 PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9851327 A1 19981119 WO 1998-JP2031 19980507 W:  
AU, CA RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE AU 9872343 A1 19981208 AU 1998-  
72343 19980507 AU 739107 B2 20011004 EP 919241 A1  
19990602 EP 1998-919512 19980507 R: DE, FR, GB, NL US  
6231850 B1 20010515 US 1998-79984 19980515 US 6562334  
B1 20030513 US 1999-390729 19990907  
PRAI JP 1997-127690 A 19970516 WO 1998-JP2031 W  
19980507 US 1998-79984 A3 19980515

AB Therapeutic and prophylactic agents for canine and feline immunol. diseases, contg. an active ingredient comprising a \*\*\*canine\*\*\* \*\*interleukin\*\*\* \*\*12\*\*\* prepd. by genetic engineering. Specifically, the therapeutic and prophylactic agents contain a recombinant \*\*\*canine\*\*\* \*\*interleukin\*\*\* \*\*12\*\*\* or a hetero dimer. The methods for treatment and prevention of canine and feline immunol. diseases are characterized by injecting the above therapeutic or prophylactic agent to a dog or a cat. Described were mol. cloning and use of \*\*\*canine\*\*\* \*\*IL\*\*\* - \*\*\*12\*\*\* encoded by plasmids CaIL12P40 and CaIL12P35. The recombinant \*\*\*IL\*\*\* - \*\*\*12\*\*\* is useful for treating \*\*\*canine\*\*\* or feline with tumor, dermatitis, infections or allergic diseases.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1998:345475 CAPLUS  
DN 129:121500

TI Detection, cDNA cloning and sequencing of \*\*\*canine\*\*\* \*\*interleukin\*\*\* \*\*12\*\*\*

AU Buttner, Mathias; Belke-Louis, Georg; Rziha, Hanns-

Joachim; McInnes, Colin; Kaaden, Oskar-Ruger

CS Institute Vaccines, Federal Research Centre Virus Diseases  
Animals, Tuebingen, D-72001, Germany

SO Cytokine (1998), 10(4), 241-248 CODEN: CYTIE9; ISSN:  
1043-4666

PB Academic Press Ltd.

DT Journal

LA English

AB In canine peripheral blood mononuclear cells (PMBC) the mRNAs coding for both subunits of \*\*\*canine\*\*\*

\*\*\*interleukin\*\*\* \*\*12\*\*\* ( \*\*\*IL\*\*\* - \*\*\*12\*\*\* ) were

identified using reverse transcription polymerase chain  
reaction (RT-PCR). Stimulation of canine PBMC with

Staphylococcus aureus strain Cowan plus Con A for 5h  
resulted in significant mRNA synthesis. Likewise, inactivated

vaccinia virus induced IL-12 mRNA synthesis, however with  
different kinetics. The complete nucleotide sequence for both

IL-12 subunits was detd. using rapid amplification of cDNA  
ends (RACE)-PCR and cloning of amplified specific cDNAs.

Computer-aided amino acid (aa) sequence comparison of both  
\*\*\*canine\*\*\* \*\*IL\*\*\* - \*\*\*12\*\*\* subunits revealed more

than 80% identity with the amino acid sequences of six other  
mammalian species. Closest relation was found to human,

porcine, bovine and cervine IL-12. However, no reactivity was  
found with antibodies directed against human \*\*\*IL\*\*\* -

\*\*\*12\*\*\*, when supernatants of stimulated \*\*\*canine\*\*\*  
PBMC were tested. Supernatants of \*\*\*canine\*\*\* PBMC

stimulated for \*\*\*IL\*\*\* - \*\*\*12\*\*\* release also induced  
interferon .gamma. (IFN-.gamma.) mRNA as detectable by

RT-PCR; however, it was not clear whether IFN-.gamma.  
mRNA synthesis was due to an IL-12 specific effect or other

stimuli. As to the stimulating effect of \*\*\*IL\*\*\* - \*\*\*12\*\*\*  
on \*\*\*canine\*\*\* IFN-.gamma. mRNA synthesis, recombinant

human IL-12 was a good inducer. Since IL-12 is regarded as a  
major regulatory mol. of T-cell-mediated immune response

and cell growth the authors' work on the cloning and  
sequencing of this cytokine from dogs lays the basis for future

investigations on the biol. and possible therapeutic role of  
\*\*\*canine\*\*\* \*\*IL\*\*\* - \*\*\*12\*\*\*.

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1998:115434 CAPLUS  
DN 128:166369

TI Cloning and expression of the cDNA for \*\*\*canine\*\*\* \*\*interleukin\*\*\* - \*\*\*12\*\*\* subunits

IN Okano, Fumiyoshi

PA Toray Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 10036397 A2 19980210 JP 1996-296789 19961108

PRAI JP 1995-289729 19951108 JP 1996-128104 19960523

AB The cDNA encoding the p40 and p35 subunits of

\*\*\*canine\*\*\* \*\*interleukin\*\*\* - \*\*\*12\*\*\* (CaIL- \*\*\*12\*\*\*

) are isolated and their amino acid sequences deduced.

Antitumor or antiviral activities of CaIL-12 are also described.

L1 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN AN 1997:742073 CAPLUS

DN 128:74114

TI Cloning and expression of the cDNA for \*\*\*canine\*\*\*  
\*\*\*interleukin\*\*\* - \*\*\*12\*\*\*

AU Okano, Fumiyoshi; Satoh, Masahiro; Yamada, Katsushige  
CS Chemicals Research Laboratories, Toray Industries, Inc.,  
Nagoya, Japan

SO Journal of Interferon and Cytokine Research (1997),  
17(11), 713-718 CODEN: JICRFJ; ISSN: 1079-9907

PB Mary Ann Liebert, Inc.

DT Journal

LA English

AB The authors cloned the \*\*\*canine\*\*\* \*\*\*interleukin\*\*\* -  
\*\*\*12\*\*\* ( \*\*\*IL\*\*\* - \*\*\*12\*\*\* ) subunit cDNA.

\*\*\*Canine\*\*\* \*\*\*IL\*\*\* - \*\*\*12\*\*\* exhibited sequence  
homol. to the known sequences of human, mouse, and bovine  
genes at nucleotide and amino acid levels. Cotransfection of  
the p35 and p40 subunits of \*\*\*canine\*\*\* \*\*\*IL\*\*\* -  
\*\*\*12\*\*\* cDNA clones into COS-1 cells resulted in the  
secretion of IL-12, which supported proliferation of the  
stimulated canine lymphocytes, promoted induction of canine  
interferon- $\gamma$ . (IFN- $\gamma$ .) from canine lymphocytes,  
and showed antitumor effect in vitro. The cloned  
\*\*\*canine\*\*\* \*\*\*IL\*\*\* - \*\*\*12\*\*\* will be useful for  
\*\*\*canine\*\*\* therapeutic applications.

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE  
FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L1 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:363611 CAPLUS

DN 125:18991

TI Interleukin-12 as an adjuvant for Paramyxoviridae vaccines

IN Graham, Barney S.; Tang, Yi-Wei

PA Vanderbilt University, USA

SO PCT Int. Appl., 32 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9611019 A1 19960418 WO 1995-US12656 19951002  
W: AU, CA, JP, MX RW: AT, BE, CH, DE, DK, ES, FR, GB, GR,  
IE, IT, LU, MC, NL, PT, SE AU 9538876 A1 19960502 AU  
1995-38876 19951002 AU 701753 B2 19990204 EP 784486 A1  
19970723 EP 1995-938133 19951002 R: AT, BE, CH, DE, DK,  
ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 10507175 T2  
19980714 JP 1995-512635 19951002 US 6071893 A 20000606  
US 1997-980160 19971126

PRAI US 1994-318480 19941005 WO 1995-US12656  
19951002

AB A method is disclosed of reducing viral replication of a  
virus of the Paramyxoviridae family in a host, comprising  
administering to the host an antigen of the virus in  
combination with an effective adjuvant amt. of interleukin-12  
(IL-12). Human viruses of the Paramyxoviridae family include  
paramyxoviruses (e.g., parainfluenza virus 1, parainfluenza  
virus 2, parainfluenza virus 3 and parainfluenza virus 4),  
morbilliviruses (e.g., measles virus) and pneumoviruses (e.g.,  
respiratory syncytial virus); other non-human viruses of the  
Paramyxoviridae family include canine distemper virus, bovine  
respiratory syncytial virus, Newcastle disease virus and  
rhinderpest virus. A compn. is also disclosed comprising a  
mixt. of an antigen of a virus of the Paramyxoviridae family  
and an effective adjuvant amt. of interleukin-12 (IL-12).

=> log y

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 48.00 48.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE  
FILE TOTAL ENTRY SESSION  
CA SUBSCRIBER PRICE -9.11 -9.11

STN INTERNATIONAL LOGOFF AT 09:20:59 ON 23 AUG 2003